

Title (en)  
APPARATUS AND METHOD FOR HANDLING FLUIDS FOR ANALYSIS

Title (de)  
VORRICHTUNG UND VERFAHREN ZUR HANDHABUNG FLÜSSIGKEITEN FÜR ANALYSEN

Title (fr)  
DISPOSITIF ET PROCEDE POUR LA MANIPULATION DE FLUIDES AUX FINS D'ANALYSE

Publication  
**EP 1638690 A2 20060329 (EN)**

Application  
**EP 04755308 A 20040615**

Priority  
• US 2004019049 W 20040615  
• US 47971003 P 20030619

Abstract (en)  
[origin: EP2087935A1] A reaction vessel with a bottom drain opening supporting a selected unpressured head of fluid by the surface tension of the fluid. A device processing zone includes a support for spaced rows of reaction vessels, passages communicating with their drain openings of supported vessels, and a pressure source for selectively draining fluid through the drain openings. Generally horizontal bar magnets are supported for selected vertical movement between the vessel rows. A dispensing head has X discharge openings selectively positionable over X selected reaction vessels. A metering pump mechanism selectively meters X a selected quantity of fluid a bulk supply (where X is at least four), and selectively pumps the metered selected quantities through the drain openings to the selected reaction vessels.; Methods of drawing fluid from the vessels using the pressure source, and moving the magnets to form a pellet of analyte are also included

IPC 1-7  
**B01L 3/14**

IPC 8 full level  
**B01L 3/00** (2006.01); **B67D 99/00** (2010.01); **G01N 1/00** (2006.01); **G01N 35/00** (2006.01); **G01N 35/10** (2006.01); **B01L 3/14** (2006.01)

CPC (source: EP US)  
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Citation (examination)  
• WO 0066214 A1 20001109 - PRISMEDICAL CORP [US]  
• US 6183645 B1 20010206 - DEWITT SHEILA H [US]  
• EP 1103304 A2 20010530 - BECTON DICKINSON CO [US]  
• US 5368729 A 19941129 - STEFKOVICH JOSEPH [US], et al  
• EP 1025902 A2 20000809 - UNIV LELAND STANFORD JUNIOR [US]

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DOCDB simple family (publication)  
**WO 2004113874 A2 20041229; WO 2004113874 A3 20050804**; AT E413603 T1 20081115; CA 2529886 A1 20041229; CA 2529886 C 20131231; DE 602004017635 D1 20081218; DE 602004027284 D1 20100701; EP 1638690 A2 20060329; EP 2058664 A2 20090513; EP 2058664 A3 20090520; EP 2058664 B1 20140409; EP 2087935 A1 20090812; ES 2315998 T3 20090401; ES 2345211 T3 20100917; ES 2468290 T3 20140616; JP 2006528337 A 20061214; JP 2010151849 A 20100708; JP 2011221030 A 20111104; JP 5136806 B2 20130206; JP 5301610 B2 20130925; US 2005047963 A1 20050303; US 2009252652 A1 20091008; US 2009314802 A1 20091224; US 7815866 B2 20101019; US 8357543 B2 20130122; US 8409528 B2 20130402

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